

N1-1 CONFIGURATION PRE 3A UMBILICAL OPERATIONS

- PCS 1. DEACTIVATE IMV FAN
Node 1: ECLSS: Aft Port IMV Fan
'Node 1 Aft Port IMV Fan'

cmd Off Execute

√Status - Off

NOTE

Verify EPCS configured for both MDMs.

- PCS2 2. VERIFY MDM STATES
Tasks: 3A Assembly Config
3A Assembly Config
'Primary NCS'

√MDM ID - N1-2

√Major State - Primary

√Frame Count - <incrementing>

'Secondary NCS'

√MDM ID - N1-1

√Major State - Secondary

* If states are not correct, do not execute *
* this procedure, √**MCC-H**. *

3. DISABLE NCS AUTO RETRY
'Primary NCS'

√Auto Retry - Inh

If Auto Retry - Ena

cmd Auto Retry - Inh

√Auto Retry - Inh

4. TRANSITION N1-1 TO DIAGNOSTIC

NOTE

1. Expect PCS FDA 'CDH MDM N1-2 detected RT fail MDM N1-1 - PMA1'.
2. The Node 1/PMA 1 Shell A Heater setpoints will default to very low values, rendering them inoperable. (Recovery will occur after this procedure is complete.)

'N1-1 MDM'
√Auth Xtion Diagnostic State - Enable

If Auth Xtion Diagnostic State - Disable
cmd Auth Xtion Diagnostic State - Ena
√Auth Xtion Diagnostic State - Enable
cmd N1-1 MDM - Transition to Diagnostic State

5. REMOVE POWER TO N1-1 MDM SDO CARD
'N1-1 SDO Card Power'

cmd RPCM N1RS1 A RPC 5 - Op
√Pos - Op
√Tripped - No

6. REMOVE N1-1 MDM POWER AT RPC

<p>NOTE Expect PCS FDA (LED, message only) when MDM power removed.</p>

'N1-1 MDM Power'

cmd RPCM N1 RS1 A RPC 11 - Op
√Pos - Op
√Tripped - No

7. DISABLE RT DEVICES I/O ON EPS BUSES
'Primary NCS UB EPS N1 14 RPCM'

cmd N1RS1 A - Inh
cmd N1RS1 B - Inh
cmd N1RS1 C - Inh

√RT Inhibit 20, 19, 18 (three) - X

8. POWER DOWN RACU 6

<p>NOTE RACU commands sent from orbiter will not work if FGB relay matrix is in MCC-M command state.</p>
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SM 204 FGB

√COMMANDING - INH (Moscow commanding)

If COMMANDING - INH

RUSSIAN GROUND	<u>AOS</u>	<u>LOS</u>
Pass 1	___/___:___:___	___/___:___:___
Pass 2	___/___:___:___	___/___:___:___

Shuttle ↓ **MCC-H**: "Ready for RACU 6 powerdown."

MCC-H ⇒ **MCC-M**: "Go for RACU 6 Power Off."

MCC-M ⇒ **MCC-H**: "RACU 6 Powered Off at ___/___:___:___ GMT."

If COMMANDING - ENA (crew commanding)

MCC-M ⇒ **MCC-H**: "Go for RACU 6 Power Off."

MCC-H ↑ shuttle: "Go for RACU 6 Power Off."

On MCC GO:

PCS

Tasks: 3A Assembly Config

3A Assembly Config

cmd RACU 6 - Off

Shuttle ↓ **MCC-H**: "RACU 6 Power Off at ___/___:___:___ GMT."

On MCC GO or when RACU 6 commanded Off:

√RACU 6 Power - Off

√Input Current < 2.0

√Output Current: 0.00A

√Output Voltage: 0.00V

9. CONNECT STRING 1 UMBILICAL BUNDLES

IV

Notify EVA crew: "RACU 6 Off. Go for String 1 umbilical connections."

NOTE

EV connects Node 1 String 1
umbilicals per EVA procedure.